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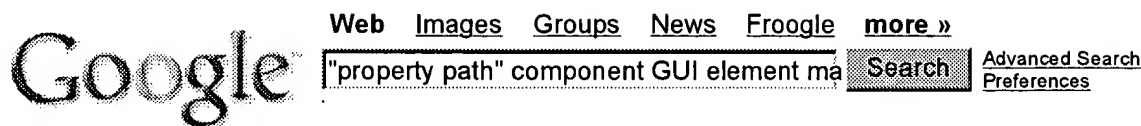
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... including Java's AWT and Swing **GUI** libraries, as ... of the properties in a **property path**, except the ... `</component-specification>` □ The root **element** of a **component** ...  
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... Rewriter Configuration and Management Guide • July 2002 1. Dump the **component** for viewing ... that correspond to what is seen on the administration **GUI** can be ...  
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... The term **element** refers to both a tag and its children, should it have any.  
 The following XML markup is an example of a `<path>` **element**. ...  
[ftp.cdu.edu.cn/pub3/uncate\\_doc/o'reilly%20-%20ant-the%20definitive%20guide.pdf](http://ftp.cdu.edu.cn/pub3/uncate_doc/o'reilly%20-%20ant-the%20definitive%20guide.pdf) - [Similar pages](#)

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... To change the interval of time pictured on the **map**, use the adjustment buttons of the clock located at the lower right corner of the **GUI**. ...  
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... wizard in one of two ways: Specify a **path** to the ... They are **GUI elements** with custom **properties** and behaviors such ... They belong to what is called a **Component Tray** ...

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# 1 [Past, present, and future of user interface software tools](#)

Brad Myers, Scott E. Hudson, Randy Pausch

March 2000 **ACM Transactions on Computer-Human Interaction (TOCHI)**, Volume 7 Issue 1

Full text available: pdf(151.14 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

A user interface software tool helps developers design and implement the user interface. Research on past tools has had enormous impact on today's developers—virtually all applications today are built using some form of user interface tool. In this article, we consider cases of both success and failure in past user interface tools. From these cases we extract a set of themes which can serve as lessons for future work. Using these themes, past tools can be characterized by what aspects ...

**Keywords:** event languages, interface builders, scripting languages, toolkits, user interface development environments, user interface software

# 2 [Fast detection of communication patterns in distributed executions](#)

Thomas Kunz, Michiel F. H. Seuren

November 1997 **Proceedings of the 1997 conference of the Centre for Advanced Studies on Collaborative research**

Full text available: pdf(4.21 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

Understanding distributed applications is a tedious and difficult task. Visualizations based on process-time diagrams are often used to obtain a better understanding of the execution of the application. The visualization tool we use is Poet, an event tracer developed at the University of Waterloo. However, these diagrams are often very complex and do not provide the user with the desired overview of the application. In our experience, such tools display repeated occurrences of non-trivial commun ...

# 3 [Using Java reflection to automate extension language parsing](#)

Dale Parson

December 1999 **ACM SIGPLAN Notices , Proceedings of the 2nd conference on Domain-specific languages**, Volume 35 Issue 1

Full text available: pdf(1.03 MB)

Additional Information: [full citation](#), [abstract](#), [references](#), [index terms](#)

An extension language is an interpreted programming language designed to be embedded in

a domain-specific framework. The addition of domain-specific primitive operations to an embedded extension language transforms that vanilla extension language into a domain-specific language. The LUXWORKS processor simulator and debugger from Lucent uses Tcl as its extension language. After an overview of extension language embedding and LUXWORKS experience, this paper looks at using Java reflection and ...

#### 4 Graphical animation of behavior models

Jeff Magee, Nat Pryce, Dimitra Giannakopoulou, Jeff Kramer

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  [pdf\(330.44 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)


Graphical animation is a way of visualizing the behavior of design models. This visualization is of use in validating a design model against informally specified requirements and in interpreting the meaning and significance of analysis results in relation to the problem domain. In this paper we describe how behavior models specified by Labeled Transition Systems (LTS) can drive graphical animations. The semantic framework for the approach is based on Timed Automata. Animations are described ...

**Keywords:** behavior analysis, graphic animation, labeled transition system

#### 5 IS '97: model curriculum and guidelines for undergraduate degree programs in information systems

Gordon B. Davis, John T. Gorgone, J. Daniel Couger, David L. Feinstein, Herbert E. Longenecker

December 1997 **ACM SIGMIS Database , Guidelines for undergraduate degree programs on Model curriculum and guidelines for undergraduate degree programs in information systems**, Volume 28 Issue 1

Full text available:  [pdf\(7.24 MB\)](#)

Additional Information: [full citation](#), [citations](#)

#### 6 Specification and dialogue control of visual interaction through visual rewriting systems

P. Bottoni, M. F. Costabile, P. Mussio

November 1999 **ACM Transactions on Programming Languages and Systems (TOPLAS)**, Volume 21 Issue 6

Full text available:  [pdf\(886.71 KB\)](#)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

Computers are increasingly being seen not only as computing tools but more so as communication tools, thus placing special emphasis on human-computer interaction (HCI). In this article, the focus is on visual HCI, where the messages exchanged between human and computer are images appearing on the computer screen, as usual in current popular user interfaces. We formalize interactive sessions of a human-computer dialogue as a structured set of legal visual sentences, i.e., as a visual language ...

**Keywords:** control automaton, dialogue control, visual languages



#### 7 Draft Proposed: American National Standard—Graphical Kernel System



Technical Committee X3H3 - Computer Graphics

February 1984 **ACM SIGGRAPH Computer Graphics**, Volume 18 Issue S1

Full text available:  [pdf\(16.07 MB\)](#)

Additional Information: [full citation](#)

- 8 Composable ad hoc location-based services for heterogeneous mobile clients   
 Todd D. Hodes, Randy H. Katz  
 October 1999 **Wireless Networks**, Volume 5 Issue 5  
 Full text available:  [pdf\(403.18 KB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 9 SDLIP + STARTS = SDARTS a protocol and toolkit for metasearching   
 Noah Green, Panagiotis G. Ipeirotis, Luis Gravano  
 January 2001 **Proceedings of the first ACM/IEEE-CS joint conference on Digital libraries**  
 Full text available:  [pdf\(301.52 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)



In this paper we describe how we combined SDLIP and STARTS, two complementary protocols for searching over distributed document collections. The resulting protocol, which we call SDARTS, is simple yet expressible enough to enable building sophisticated metasearch engines. SDARTS can be viewed as an instantiation of SDLIP with metasearch-specific elements from STARTS. We also report on our experience building three SDARTS-compliant wrappers: for locally available plain-text document collect ...

- 10 A component- and message-based architectural style for GUI software   
 Richard N. Taylor, Nenad Medvidovic, Kenneth M. Anderson, E. James Whitehead, Jason E. Robbins  
 April 1995 **Proceedings of the 17th international conference on Software engineering**  
 Full text available:  [pdf\(1.19 MB\)](#) Additional Information: [full citation](#), [references](#), [citations](#), [index terms](#)

- 11 Analysis of navigation behaviour in web sites integrating multiple information systems   
 Bettina Berendt, Myra Spiliopoulou  
 March 2000 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 9 Issue 1  
 Full text available:  [pdf\(281.14 KB\)](#) Additional Information: [full citation](#), [abstract](#), [index terms](#)

The analysis of web usage has mostly focused on sites composed of conventional static pages. However, huge amounts of information available in the web come from databases or other data collections and are presented to the users in the form of dynamically generated pages. The query interfaces of such sites allow the specification of many search criteria. Their generated results support navigation to pages of results combining cross-linked data from many sources. For the analysis of visitor naviga ...

**Keywords:** Conceptual hierarchies, Data mining, Query capabilities, Web databases, Web query interfaces, Web usage mining

- 12 Special issue on spatial database systems: An introduction to spatial database systems   
 Ralf Hartmut Güting  
 October 1994 **The VLDB Journal — The International Journal on Very Large Data Bases**, Volume 3 Issue 4  
 Full text available:  [pdf\(2.50 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#)

We propose a definition of a spatial database system as a database system that offers spatial data types in its data model and query language, and supports spatial data types in its implementation, providing at least spatial indexing and spatial join methods. Spatial database systems offer the underlying database technology for geographic information systems and other applications. We survey data modeling, querying, data structures and

algorithms, and system architecture for such systems. The em ...

**13** Guidance for the use of the Ada programming language in high integrity systems

B. A. Wichmann

July 1998 **ACM SIGAda Ada Letters**, Volume XVIII Issue 4


Full text available:  [pdf\(2.93 MB\)](#) Additional Information: [full citation](#), [abstract](#), [citations](#), [index terms](#)

This paper is the current result of a study by the ISO HRG Rapporteur group which is being circulated for comment. Many people have contributed to this, but those who have either attended two recent meetings of group or have made substantial e-mail comments are: Praful V Bhansali (Boeing, USA), Alan Burns (University of York, UK), Bernard Carre' (Praxis Critical Systems, UK), Dan Craigen (ORA, Canada), Nick Johnson MoD, UK), Stephen Michell (Canada), Gilles Motet (DGEI/INSA, France), George Roma ...

**14** Visual query and analysis tool of the object-relational GIS framework

Zoran Stojanovic, Slobodanka Djordjevic-Kajan, Dragan Stojanovic

November 2000 **Proceedings of the ninth international conference on Information and knowledge management**

Full text available:  [pdf\(589.86 KB\)](#) Additional Information: [full citation](#), [references](#)

**15** The role of software architecture in constraining adaptation in component-based middleware platforms

Gordon S. Blair, Lynne Blair, Valérie Issarny, Petr Tuma, Apostolos Zarras

April 2000 **IFIP/ACM International Conference on Distributed systems platforms**


Full text available:  [pdf\(262.73 KB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#)

Future middleware platforms will need to be more *configurable* in order to meet the demands of a wide variety of application domains. Furthermore, we believe that such platforms will also need to be *re-configurable*, for example to enable systems to adapt to changes in the underlying systems infrastructure. A number of technologies are emerging to support this level of configurability and re-configurability, most notably middleware platforms based on the concepts of open implement ...

**16** PELLPACK: a problem-solving environment for PDE-based applications on multicomputer platforms

E. N. Houstis, J. R. Rice, S. Weerawarana, A. C. Catlin, P. Papachiou, K.-Y. Wang, M. Gaitatzes

March 1998 **ACM Transactions on Mathematical Software (TOMS)**, Volume 24 Issue 1

Full text available:  [pdf\(26.30 MB\)](#) Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#), [review](#)

The article presents the software architecture and implementation of the problem-solving environment (PSE) PELLPACK for modeling physical objects described by partial differential equations (PDEs). The scope of this PSE is broad, as PELLPACK incorporates many PDE solving systems, and some of these, in turn, include several specific PDE solving methods. Its coverage for 1D, 2D, and 3D elliptic or parabolic problems is quite broad, and it handles some hyperbolic problems. Since a PSE should p ...

**Keywords:** PDE language, execution models, knowledge bases, libraries, parallel reuse methodologies, problem-solving environments, programming-in-the-large, software bus

**17** The model-assisted global query system for multiple databases in distributed enterprises



Waiman Cheung, Cheng Hsu

October 1996 **ACM Transactions on Information Systems (TOIS)**, Volume 14 Issue 4

Full text available:  pdf(697.73 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Today's enterprises typically employ multiple information systems, which are independently developed, locally administered, and different in logical or physical designs. Therefore, a fundamental challenge in enterprise information management is the sharing of information for enterprise users across organizational boundaries; this requires a global query system capable of providing on-line intelligent assistance to users. Conventional technologies, such as schema-based query languages and ha ...

## 18 Towards a taxonomy of software connectors

Nikunj R. Mehta, Nenad Medvidovic, Sandeep Phadke

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(184.27 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

Software systems of today are frequently composed from prefabricated, heterogeneous components that provide complex functionality and engage in complex interactions. Existing research on component-based development has mostly focused on component structure, interfaces, and functionality. Recently, software architecture has emerged as an area that also places significant importance on component interactions, embodied in the notion of software connectors. However, the current level of underst ...

**Keywords:** classification, software architecture, software connector, taxonomy

## 19 jRapture: A Capture/Replay tool for observation-based testing

John Steven, Pravir Chandra, Bob Fleck, Andy Podgurski

August 2000 **ACM SIGSOFT Software Engineering Notes , Proceedings of the 2000 ACM SIGSOFT international symposium on Software testing and analysis**, Volume 25 Issue 5

Full text available:  pdf(403.58 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

We describe the design of jRapture: a tool for capturing and replaying Java program executions in the field. jRapture works with Java binaries (byte code) and any compliant implementation of the Java virtual machine. It employs a lightweight, transparent capture process that permits unobtrusive capture of a Java programs executions. jRapture captures interactions between a Java program and the system, including GUI, file, and console inputs, among other types, and on replay it presents eac ...

**Keywords:** Java, capture/replay, execution profiling, observation-based testing, software testing

## 20 Principled design of the modern Web architecture

Roy T. Fielding, Richard N. Taylor

June 2000 **Proceedings of the 22nd international conference on Software engineering**

Full text available:  pdf(217.34 KB)

Additional Information: [full citation](#), [abstract](#), [references](#), [citations](#), [index terms](#)

The World Wide Web has succeeded in large part because its software architecture has been designed to meet the needs of an Internet-scale distributed hypermedia system. The modern Web architecture emphasizes scalability of component interactions, generality of interfaces, independent deployment of components, and intermediary components to reduce interaction latency, enforce security, and encapsulate legacy systems. In this paper, we

introduce the Representational State Tra ...

**Keywords:** WWW, software architectural style, software architecture

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## Cao, Diem Ky

---

**From:** An, Meng-Ai  
**Sent:** Thursday, September 09, 2004 11:14 AM  
**To:** Dam, Tuan  
**Subject:** RE: Case # 09846896

Tuam,

09/846884 is a paper case and it showed that you have it.

It's my zero date case and I need it for my examiner to work on it ASAP.

Thanks.

-----Original Message-----

**From:** Dam, Tuan  
**Sent:** Thursday, September 09, 2004 10:18 AM  
**To:** Patel, Niketa  
**Cc:** An, Meng-Ai; Gaffin, Jeffrey; Dam, Tuan  
**Subject:** RE: Case # 09846896

NO. Not for class 717/105. However, it seems to fit best in class 719/313 interprogram comm. using message or /318 event handling (see claim 7 & see further at FIGs. 3 & 6-8).

Co-pending case 09/846,884 assigned to me AU 2122 for 717/105, as Claim 1 appears to call for a method for creating a user-interface (program/application)!

However, looking closely at the claim, it seems to also call for an interprogram comm. or interprocess comm. (719/313+, as the user-interface independently of an application with which the user interface interacts).

Meng please takes a look at this case, for example: Claim 3 recites, "receiving a property path" (message); Claim 4 recites, "executing the application" (interprogram); and Claim 5 recites, "transmitting a request to register for a property change message" (719/318 event handling). So, this case might fits in creating an API... (719/328)! And, if it is, Meng please takes it from mine docket.

Thanks,  
Tuan Dam  
305-4552

-----Original Message-----

**From:** Patel, Niketa  
**Sent:** Wednesday, September 08, 2004 4:36 PM  
**To:** Dam, Tuan  
**Subject:** Case # 09846896

Please take a look at the serial number: 09846896, my SPE and I think that it belongs to class 717/105. Also, a similar co-pending application is on your docket, serial number:09/846884.

For your convenience I have attached first two claims bellow:

1. In a system including an application having a plurality of components, at least one component having a property, each property being identified with an identifier, a method of associating an element of a user-interface to a current state of a property, the method comprising: associating the element of the user-interface with a property path, the property path including a concatenation of a plurality of identifiers, the concatenation of identifiers defining a path through the components of the application to a property at the end of the concatenation; and mapping the property path to a current state of the property at the end of the path defined by the concatenation of identifiers, to associate the element of the user-interface with the current state of that property.

2. The method of claim 1 wherein the step of mapping the property path further comprises: a) examining

each identifier in the concatenation of the property path in succession; b) determining, for the first identifier in the concatenation of the property path, a second state of a property with a name identical to the first identifier, a component of the application containing that property becoming a root application component; c) identifying, for the first identifier, a component of the application to which the second state points as a current application component; d) mapping the first identifier to the second state; e) determining for the next identifier in the concatenation of the property path, a next state of a property with a name identical to the next identifier located within the current application component; f) identifying, for the next identifier, a component of the application to which the next state points as a current application component; g) mapping the next identifier to the next state; and h) repeating steps e, f and g until the last identifier of the concatenation is examined to map the property path to the current state of the property with a name identical to the last identifier.

Thank you for your time.

*Niketa Patel*

Patent Examiner - AU 2182

Crystal Park 2 - 2A12

Phone: (703) 305 4893